



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
WASHINGTON, DC 20350

20

IN REPLY REFER TO

OPNAVINST 5230.12C
OP-942

23 APR 1984

OPNAV INSTRUCTION 5230.12C

From: Chief of Naval Operations

Subj: Management of WWMCCS standard computer systems

Ref: (a) JCS Publication 19 (R)
(b) WWMCCS Contract (F 19630-80-D-001 of 1 Oct 1979) (R)

Encl: (1) Navy Program Coordinator for WWMCCS ADP
(2) OPNAV Sponsors for Navy WWMCCS Applications
(3) Software Development
(4) Navy WWMCCS Standard Data Element System
(5) Telecommunications
(6) Acceptance Testing
(7) Hardware Maintenance

1. Purpose. To amplify reference (a) and (b), and revise the framework for management of the Worldwide Military Command and Control System (WWMCCS) standard computer systems in Navy.

2. Cancellation. OPNAVINST 5230.12B, Symbols OPNAV 5230-5 and 5230-5C are cancelled. CN-1 25 May 94.

3. Background. WWMCCS Automatic Data Processing (ADP) program has been in operation since 1971 and will continue until replacement by the WWMCCS Information System (WIS) in the early 1990's. Although current WWMCCS ADP has evolved to primarily a maintenance function, effective management and utilization of the system must be emphasized. WIS Joint Program Manager (JPM) is designated overall WWMCCS ADP Management authority.

4. Configuration. WWMCCS standard computer configuration should be maintained at a level which will provide capacity to accomplish known workload of the command plus a 25 percent workload increase allowance for future workload in support of Joint Chiefs of Staff (JCS) and military contingency. Processing capacity should be based on workload experience during prime time of each duty day. Any required change in configuration must be requested by timely submission of a System Development Notification (SDN) to Chief of Naval Operations (CNO) (Op-942) in accordance with reference (a). This includes all activities desiring to connect to Navy sponsored WWMCCS activities. (R)

5. Software Development. Nonstandard, duplicative software development efforts have in the past been justified by differences

in ADP equipment; however, their elimination is sought by implementation of standard systems where appropriate at major Navy and Navy supported commands. Accordingly, all Navy sponsored and funded software development (both command and control and management information) for WWMCCS standard systems will be coordinated by CNO. Action is being taken by the JCS and CNO to establish procedures for centralized design and programming of selected common-use functional programs.

6. Action. Addressees will take action as specified in enclosures (1) through (7).

7. Reports. Symbols OPNAV 5230-12 and 5230-13 have been assigned to the requirements contained in enclosure (6) and are approved for three years only from the date of this instruction.



G. R. NAGLE
By direction

Distribution: (2 copies each)

SNL	21A	(Fleet Commanders in Chief)
	41A	(COMSC)
	26LL	(DPSC PAC PEARL HARBOR)
	50A	(Unified Commands) (USCINCLANT and USCINCPAC only)
	50C	(Subordinate Unified Commands) (COMUSKOREA and COMUSJAPAN only)
	FA1	(LANTCOMOPSUPPFAC)
	FC1	(FOCCEUR)
	FF32	(FLDSUPPACT)
	FG1	(COMNAVTELCOM)
	FK1B	(COMNAVELEXSYSCOM)
	FL1	(COMNAVDAC)
	FS1	(COMNAVINTCOM)

DCNO's and DMSO's

OPNAVINST 5230.12C

23 APR 1984

Copy to: (2 copies each)
SNDL A4A (CHNAVMAT)
 A5 (Bureaus) (CHNAVPERS, only)
 A6 (CMC)
 FKA6A12 (NAVOCEANSYSCEN)
 FT1 (CNET)
 FT5 (CNTECHTRA)

Stocked:
CO, NAVPUBFORMCEN
5801 Tabor Ave
Philadelphia, PA 19120 (100)

23 APR 1984

NAVY PROGRAM COORDINATOR FOR WWMCCS ADP

1. Purpose. To establish a Navy Program coordinator for World-wide Military Command and Control System (WWMCCS) Automatic Data Processing (ADP) Program.

2. Background. Action is underway to enhance WWMCCS standard computers at Navy and Navy supported commands in accordance with DOD Directive 5100.3. While primary responsibility rests in the receiving commands for installation, ADP program conversion, and operation of these new computers, the Chief of Naval Operations is required to maintain an overview and coordinate the planning and support functions necessary for installation of WWMCCS computers.

3. Responsibility. Director, Command and Control Support System Division (Op-942) is designated Navy Program Coordinator for the WWMCCS ADP Program including funding, System Development Notifications (SDN's), and installation of hardware. Op-942 is responsible for coordination of all Navy actions concerned with successful implementation of this program. Functions within the area of responsibility include: (R)

a. Providing Navy point of contact to WIS Joint Program Management Office, WWMCCS Administrative Contracting Office, Single Service Logistics Support Manager, Single Service Training Manager, and Office of Joint Chiefs of Staff (C² ADP Division). (R)

b. Providing Navy point of contact to the supplier of WWMCCS standard computers.

c. Coordinating tasking of those activities involved in development, conversion and maintenance of JCS approved programs to support commands where WWMCCS computers are located.

d. Coordinating financial programming and budgeting and defending total Navy WWMCCS ADP Program in budget hearings.

e. Maintaining liaison with all WWMCCS participants and sponsors of WWMCCS related systems.

f. Providing Navy representatives to various WWMCCS committees and working groups.

Enclosure (1)

23 APR 1984

OPNAV SPONSORS FOR NAVY WWMCCS APPLICATIONS

1. Purpose. To identify sponsors in the Office of the Chief of Naval Operations (OPNAV) for standard Navy computer programs and Automated Data Processing (ADP) systems to be supported in WWMCCS standard computers, and establish responsibilities and procedures for ADP project coordination and requirements validation.

2. Scope. For the purpose of this enclosure, Navy WWMCCS ADP applications are all computer programs and ADP systems developed by the Navy for WWMCCS standard computers at Navy and Navy supported commands where requirements will be validated by Chief of Naval Operations (CNO) and implemented by a developing agency.

3. Background. In the past, Navy and Navy supported commanders have received ADP development assistance in satisfying their respective command support requirements through several different procedures. Standardization of command support computer programs and ADP for common use by multiple commands requires that OPNAV sponsors coordinate validation of functional requirements to ensure proper and fair representation of the needs of supported commands and resolve differences among requirements. Sponsor must determine if there are unique requirements, so that the implementing agency can tailor systems. An OPNAV sponsor will be assigned to each functional area requirement supported by WWMCCS standard computer applications. This instruction identifies sponsors and describes responsibilities in executing procedures for processing project requests. Similar procedures will be used in the processing of System Development Notifications (SDN) submitted in response to this instruction.

4. Applications Sponsor Responsibilities. OPNAV sponsor of Navy WWMCCS ADP applications is responsible for assuring functional requirement areas are coordinated in support of missions for which he has been assigned cognizance. The sponsor will ensure that the functional content of data systems satisfies the legitimate needs of all supported commanders in a manner which avoids unnecessary duplication of effort and minimizes the independent development of unique applications. Specifically, the sponsor will:

23 APR 1984

a. Serve as single final authority within Navy for determination of functional requirements for computer programs and ADP support of missions and tasks within his purview.

b. Confirm validity of stated requirements.

c. Coordinate users' requirements by reconciling and resolving differences in users' requirements and providing authoritative guidance concerning the manner in which requirements are to be supported in the development of ADP systems.

d. Identify opportunities for system standardization.

e. Identify requirements for special options when standard programs cannot satisfy legitimate individual needs of specific users.

f. Initiate and coordinate action for Navy and Navy supported commands to JCS to provide additional computer programs and ADP requirements when gaps are found in existing capabilities.

g. Coordinate with other affected sponsors when functional missions and task categories impinge on each other or present an opportunity for integration.

h. Review Navy requirements in light of similar requirements outside Navy, such as represented by JCS WWMCCS standard systems, to prevent duplication.

i. Assure compliance with requirements stated in related OPNAV and DOD instructions.

j. Participate in acceptance testing at completion of project, as appropriate.

5. Procedures

a. Project Requests. Upon receipt of a project request for development of a command support computer application to satisfy requirements of Navy and Navy supported commands, Op-942 will furnish a copy of the project request to appropriate OPNAV sponsor identified in attachment (1) for review by that sponsor. The sponsor will initiate the actions outlined in paragraph 4, effecting coordination with all other affected commands and sponsors. Concurrently COMNAVELEXSYSCOM will proceed with the development of a planning estimate in response to the project

(R

(

23 APR 1984

request. If sufficient information or funds are not available, COMNAVELEXSYSCOM will notify Op-942 of shortfall prior to beginning a planning estimate. Should sponsor determine redirection of the project is appropriate, sponsor will provide written comment to this effect to Op-942 as early as possible. (R)

b. Planning Estimate. Copies of all planning estimates developed by COMNAVELEXSYSCOM will be furnished to appropriate sponsor for each project request. When a developing agency has funding and development management responsibility for a project, a copy of the planning estimate will simultaneously be provided to that agency. Data systems standardization opportunities identified by COMNAVELEXSYSCOM will be specifically brought to the sponsor's attention in each planning estimate. Formal concurrence and/or written comments by sponsor and by any funding developing agency are required by Op-942 as a basis for approval or modification of each planning estimate. Prompt review of the planning estimate is essential to permit changes to be incorporated as early as possible in the development process. (R)

c. Technical Documentation. COMNAVELEXSYSCOM will distribute technical documentation concerning each project directly to all concerned commands, development agencies, and OPNAV codes. Unless otherwise directed, comments on such documentation will be forwarded to the sponsor. The sponsor will coordinate and consolidate a single response for forwarding directly to COMNAVELEXSYSCOM. In cases where the sponsor has elected to delegate certain functions for a particular project or to specify special distribution of technical documents for a project, it will be the responsibility of the sponsor to notify all concerned. (R)

6. Action. Op-942 will process and coordinate Navy WWMCCS ADP projects in accordance with procedures outlined above. OPNAV sponsors will execute responsibilities set forth in paragraphs 4 and 5. (R)

OPNAVINST 5230.12C

23 APR 1984

NAVY WWMCCS ADP APPLICATIONS SPONSORS

<u>Mission and Task Category</u>	<u>OPNAV Sponsor</u>
Planning, programming, budgeting actions	Op-942 (A
Plans, policy, programs and procedures	Op-942 (A
Intelligence Data Handling System (IDHS)	Op-009 ,
Single Integrated Operations Plan (SIOP)	Op-604
Joint Operation Planning System (JOPS)	Op-605
Navy status of forces	Op-643
Data element management	Op-643 (A
Telecommunications	Op-941
Navy WWMCCS Software Standardization (NWSS)	Op-942 (R
Matters covering more than one category	Op-942 (A

Enclosure (2)

Attachment (1)

23 APR 1984

SOFTWARE DEVELOPMENT

1. Background. Definitions and requirements for coordination of software development are contained in reference (a). A single point of contact is required within OPNAV to coordinate software development at Navy supported commands with WWMCCS standard systems, both to satisfy JCS reporting and documentation requirements and to coordinate development of common Navy functional software which will affect Navy's command and control/management information capabilities.

2. Coverage. The provisions of this enclosure apply to all software developed for use on WWMCCS standard computers. Submission of the software development report stipulated in reference (a) is not required if all of the following criteria are satisfied:

- a. All development will be done locally by in-house personnel.
- b. No known applications outside the primary user command.
- c. Total effort (including design, programming, and documentation) will not exceed two man-years.

3. Procedures. The provisions of reference (a) related to software development for Navy sponsored WWMCCS standard computer systems will be implemented as follows:

(R

a. System Development Notification (SDN) will be submitted by the command requesting development to CNO (Op-942) with information copy to JCS. Prior to committing any resources to WWMCCS standard system software development, OPNAV approval must be obtained.

b. Remote site organizations must submit SDN's via central computer site organization.

c. Navy component commanders submit SDN to CNO (OP-942) with information copy to JCS and their unified commanders. Unified commander concurrence will be assumed unless nonconcurrence is received within 30 days!

Enclosure (3)

OPNAVINST 5230.12C

23 APR 1984

d. Op-942 will provide copies of SDN's received to all appropriate OPNAV offices and NAVMAT commands for information and comment as appropriate.

e. Op-942 will forward SDN's to JCS as required by reference (a).

4. Priority of Applications. WWMCCS computers are installed primarily for command and control applications. While use of these computers for other work is appropriate on a time available basis, care must be taken to assure continued emphasis on the primary mission.

NAVY WWMCCS STANDARD DATA ELEMENT SYSTEM

1. Purpose. To establish policy, responsibilities and general procedures for the administration, management and control of data elements and related features used on Navy supported WWMCCS standard computer systems.

2. Background. Immediate requirements for interchange of data and sharing of programs among WWMCCS users and future requirements for a distributed data base and computer networking are all dependent on achievement of the Standard Data Elements System (STADES). The general program for data element standardization in the Department of Navy is set forth in SECNAV Instructions 5200.18 and 5200.19. Standard data elements are published in DOD 5000.12-M dated 12 December 1982. JCS Pub 1 contains WWMCCS data elements. To implement the requirements of these instructions, this enclosure establishes the Navy WWMCCS STADES.

3. Scope

a. Navy WWMCCS STADES is intended for standardization of data elements wherever appropriate for all applications being designed and programmed for Navy supported WWMCCS standard computer systems.

b. Centralized Navy WWMCCS STADES has been established and consists of:

- (1) DOD standard data elements,
- (2) WWMCCS standard data elements issued by JCS,
- (3) Standard data elements used in Navy standard systems for WWMCCS computers,
- (4) Data elements for local unique requirements, and
- (5) Standard data elements promulgated by Defense Intelligence Agency (DIA).

DATE: 23 APR 1984

4. Policy

a. Selection of data elements to be used in Navy supported WWMCCS standard computer systems will be elements in the STADES file. To conserve resources COMNAVELEXSYSCOM will maintain an on-line STADES file available on request to other users via WWMCCS Intercomputer Network (WIN) for site-unique development. (R)

b. Local development of data elements is authorized only after verification with COMNAVELEXSYSCOM (PDE 120-1) that requirements cannot be fulfilled from STADES file. (R)

5. Responsibilities

a. Chief of Naval Operations (Op-643) is responsible for overall policy and program coordination of the Navy WWMCCS STADES.

b. COMNAVELEXSYSCOM is responsible for management, maintenance, and promulgation of the Navy WWMCCS STADES.

23 APR 1984

TELECOMMUNICATIONS

1. Telecommunications Function. Management of telecommunications in support of WWMCCS standard computer systems requires identification of and differentiation between telecommunications and ADP facilities and functions. The exchange of information between remote data terminals and central processors or the exchange of data among geographically dispersed central processors is a telecommunications function. Op-941 is the OPNAV sponsor for telecommunications. Local and internal processing or manipulation of data for specific purposes is an ADP function.
2. Interconnectivity. Exchange of information between elements of the WWMCCS standard system may be effected via dedicated, leased, or government-owned facilities or via common user record networks. Navy supported standard system computers will interface via the WWMCCS Intercomputer Network (WIN) which will be an integral part of Defense Data Network (DDN). Interconnectivity via dedicated, leased, or government owned systems will be developed on a case-by-case basis. (R)
3. Integration. WWMCCS standard systems will be integrated with existing telecommunications functions and facilities to the maximum extent practicable. Integration will include the centralized management, operation and maintenance of collocated telecommunications resources.
4. Requirements. Requirements for telecommunications resources in support of the WWMCCS standard system falling within the scope of reference (a) will be included in System Development Notifications (SDN's) submitted in accordance with instructions contained therein. Prior to submitting the SDN, the WWMCCS Site Coordinator should consult with the connecting telecommunications facilities to insure the availability of space for hardware, communications lines, and support personnel in the technical control area. Identify any requirement for additional space or personnel in the SDN including concurrence/non-concurrence of serving telecommunications facility. During the CNO validation process, the availability of communications hardware (i.e. MODEM's, multiplexers, test equipment), and cryptographic equipment, if necessary, will be determined. If the circuit is to be installed within three years, the cost of leased line support must be borne by the connecting CINC unless previously programmed by the Commander, Naval Telecommunications Command (R)

Enclosure (5)

OPNAVINST 5230.12C

28 APR 1984

(COMNAVTELCOM). Subsequently, COMNAVTELCOM will include the cost of the leased line support in Program Objectives Memorandum (POM) submission.

Example

<u>Current yr</u>	<u>CKT to be installed</u>	<u>Funding Responsibility</u>
1983	1984	CINC COMNAVTELCOM
		1984, 85 1986 and out

23 APR 1984

ACCEPTANCE TESTING

1. Hardware

a. Responsibility. Action addressees are responsible for conducting and evaluating component acceptance tests.

b. Test Programs. The basic concept of a performance test is to run regular operational programs for one month and observe results. The new component is immediately integrated into the ongoing work at the installation.

c. Honeywell Certification. Honeywell will certify in writing to the user command when equipment is ready for use as required in reference (b). No effort to use the component is to be made by the Government until installation certification is received. If certification is made on or prior to the installation date required in the delivery order and if the command is ready to use the equipment, performance testing may commence immediately. If the performance period does not start by the installation date required in the delivery orders, the site shall notify the Air Force contracting office by message of the circumstances which are preventing timely commencement. CNO (OP-942) will be an info addressee on the message. This reporting requirement has been assigned report symbol OPNAV 5230-12.

d. Performance Period. Reference (b) establishes conditions for the conduct of acceptance testing. The length of the required performance period is dependent upon achievement of the minimum average thirty days standard effectiveness level. The acceptance testing is conducted until the requisite average thirty days effectiveness level is achieved or until the 90th day of unsuccessful performance. In the latter circumstance, action to be taken will be determined jointly by the user command, CNO, and WWMCCS Administrative Contracting Office (WACO). Achievement of the required effectiveness level will terminate the test but may not dictate acceptance of the equipment since hardware performance and other physical, design or functional characteristics of the machine are also pertinent to system acceptance. It is therefore incumbent on the user command to make appropriate tests of these other factors during the first 30 days of the performance period so positive determination can be made immediately if the effectiveness level is satisfactory.

23 APR 1984

e. Utilization Measurement. Operational use time and downtime will be recorded by an operator logging hours and minutes.

f. Reporting Procedures. When a satisfactory effectiveness level is achieved over a continuous 30-day period or when 60 days of testing have elapsed without achieving a satisfactory performance level, CNO must be notified. If the effectiveness level is satisfactory and the component can be productively utilized, user command will submit a "Material Inspection and Receiving Report" (DD FORM 250), directed to WACO, with copy to CNO and appropriate unified commander. If the effectiveness level is unsatisfactory or if the effectiveness is satisfactory but productive utilization is prevented by hardware performance deficiencies, full details of the problems encountered should be reported by user command utilizing the same report form along with any appropriate recommendations. Report symbol OPNAV 5230-13 has been assigned.

HARDWARE MAINTENANCE

1. Contracting. Orders for maintenance service should not be processed through the WWMCCS Administrative Contracting Office (WACO), but should be placed by the local contracting officer supporting the activity citing reference (b). Information copies of the delivery order will be forwarded to WWMCCS Information System Joint Project Manager (WIS JPM), WACO, Single Service Logistic Support Manager (SSLSM), and CNO (Op-942).

2. Options. Maintenance options under the contract range from on-call remedial and preventive maintenance for any eight hours per day between 0700 and 1800, Monday through Friday, to on-site maintenance, 24 hours per day, seven days a week and holidays. To minimize maintenance cost each activity should order only the minimum maintenance support needed to meet existing operating requirements.

3. Preventive maintenance scheduling. By reference (b), it is Honeywell's prerogative to determine the length and frequency of preventive maintenance. The Government has the prerogative to schedule the period to conduct preventive maintenance. Local commands are granted full authority to make scheduling decisions for the Government, keeping in mind cost implications as noted above. The Honeywell WWMCCS contract states that normal preventive maintenance requirement is two hours per day. Any request for time in excess of that amount on a routine basis should be referred to CNO (Op-942).